

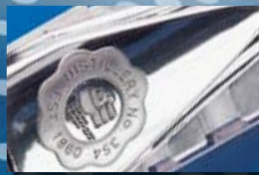
## G10

### Laser engraving machine

The G10 is the smallest machine in the G-series, equipped with an automatically height-adjustable laser head and expandable to 5 axes. The supply units are fitted in the machine, where they are easily accessible. The use of the most modern components guarantees the necessary precision for laser processing.

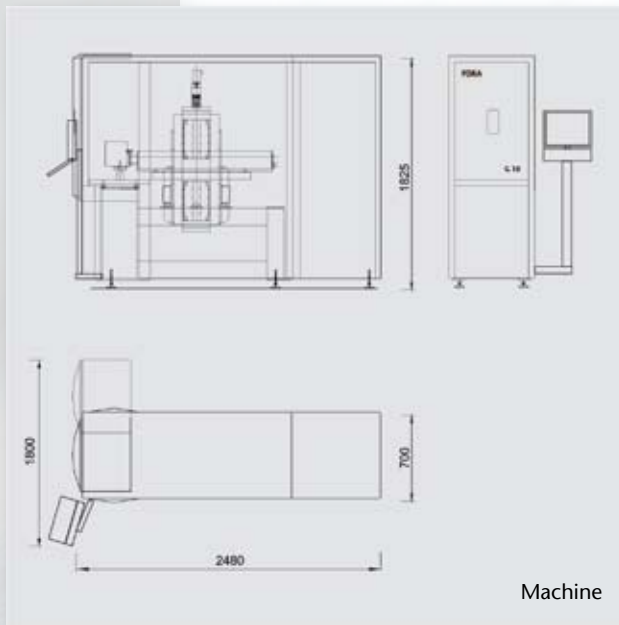
#### Advantages

- Marking and engraving of 2D and 3D structures, contours and surfaces
- Contact-free processing - no need to clamp the workpieces
- No agents which affect the environment (cooling lubricants and dielectrics)
- Software for marking, engraving, measuring and moving the axes



# G10

## Laser engraving machine



Machine

### Machine

Load	Workpieces up to 100 kg
Z-axis (focus)	up to 500 mm
Engraving field	120 x 120 mm <sup>2</sup> (f=163 mm)
Jog Dial	Manual operation for all axes

### Control

AC servo motors	with digital control system
Path control	up to 5 axes
Laser control	FOBAGRAF
Machine control	FobaEMC
Operating system	MS Windows 2000 / XP

### Laser

Laser type	1064 nm, up to 100 Watt
Output modes	Continuous wave operation (CW) Pulsed operation (QS) 0.5 - 65 kHz Mixed operation (parameterizable)

### Options

Touch probe	For setting up workpieces
Tactile probe	Depth measurements
Pointer	Adjustment aid
IMP	Vision-based mark positioning
X/Y cross table (steel guide)	Table plate 250 x 250 [mm] Travel 300 x 300 [mm] Max. load 50 kg
X/Y cross table (design in hard stone)	Table plate 250 x 250 [mm] Travel 285 x 285 [mm] Max. load 100 kg
Cylinder engraving unit	360°
Turn-swivel unit	360°, +90°
Suction filter	

### Installation

The way the unit is set up depends on the design of the working area and the integrated laser system.

Electrical	3/N/PE, AC 400V, 50/60 Hz
Power consumption	2.8 - 8 kVA
Temperature	15 - 40 °C
Humidity	90 % (up to max. 20 °C) 30 % (up to max. 40 °C) non-condensing
Cooling	depends on laser system
Weight	Machine approx. 1000 kg
Degree of protection	IP 54
Safety	Laser class 1

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